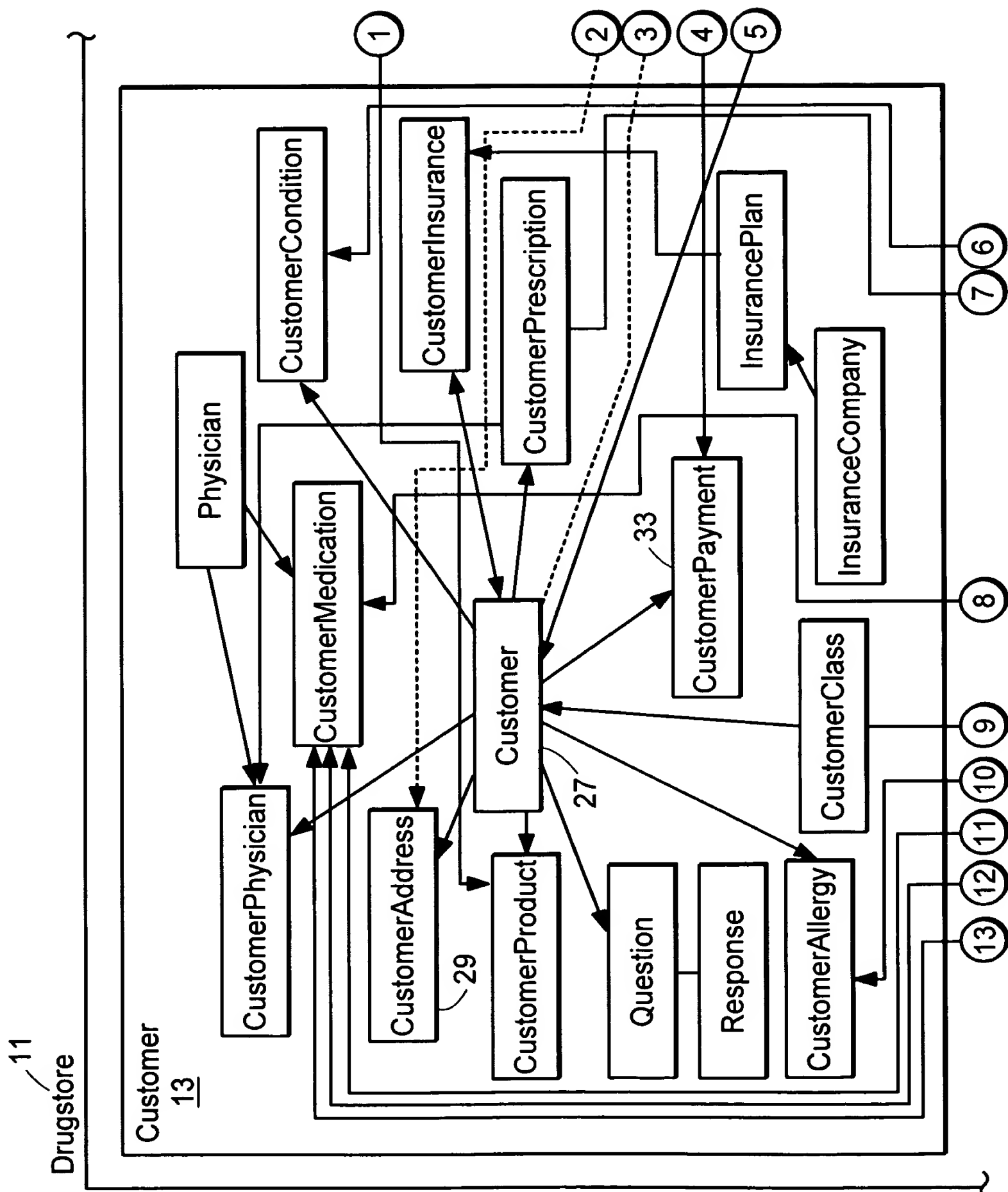
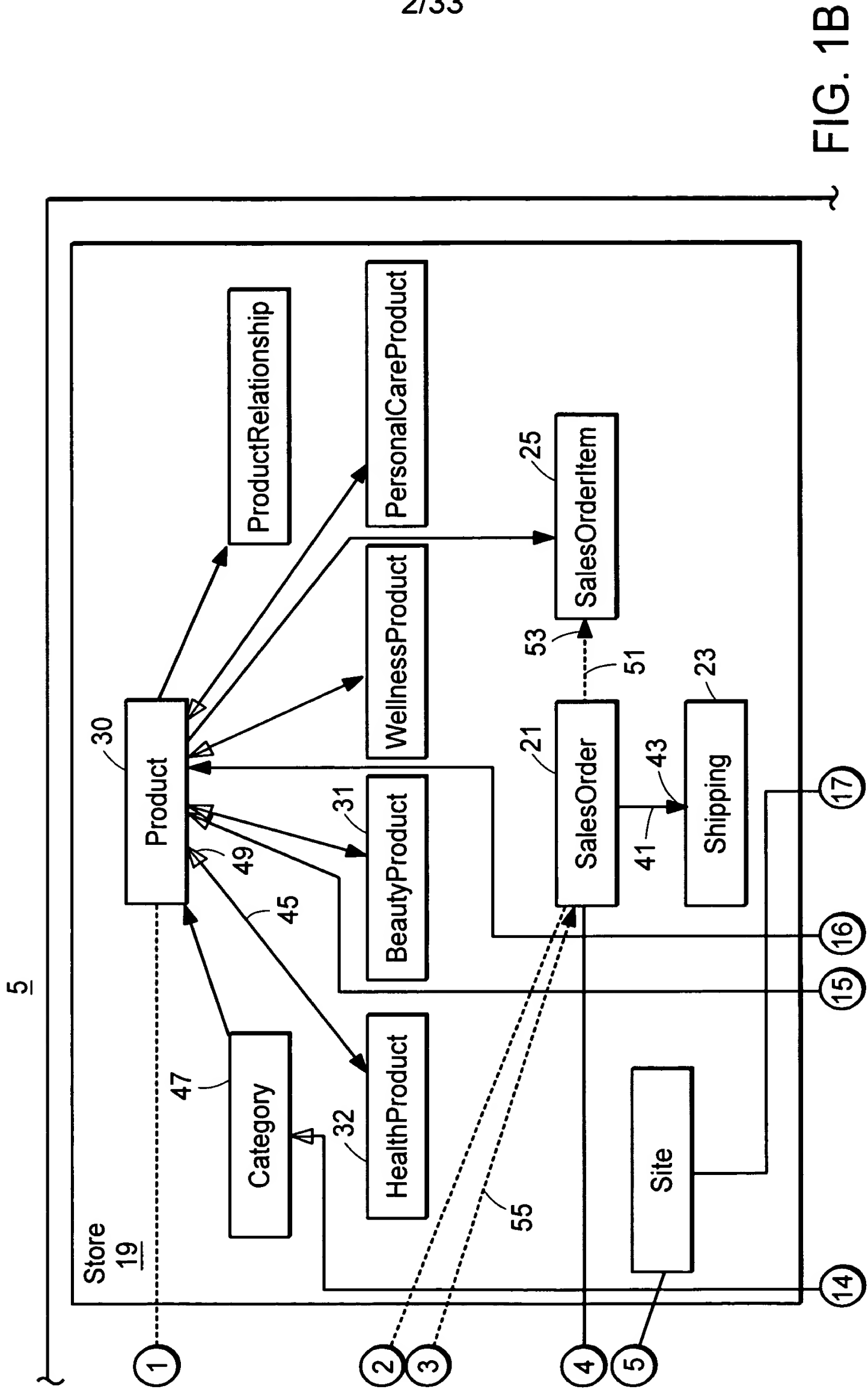


FIG. 1A	FIG. 1B
FIG. 1C	FIG. 1D

FIG. 1

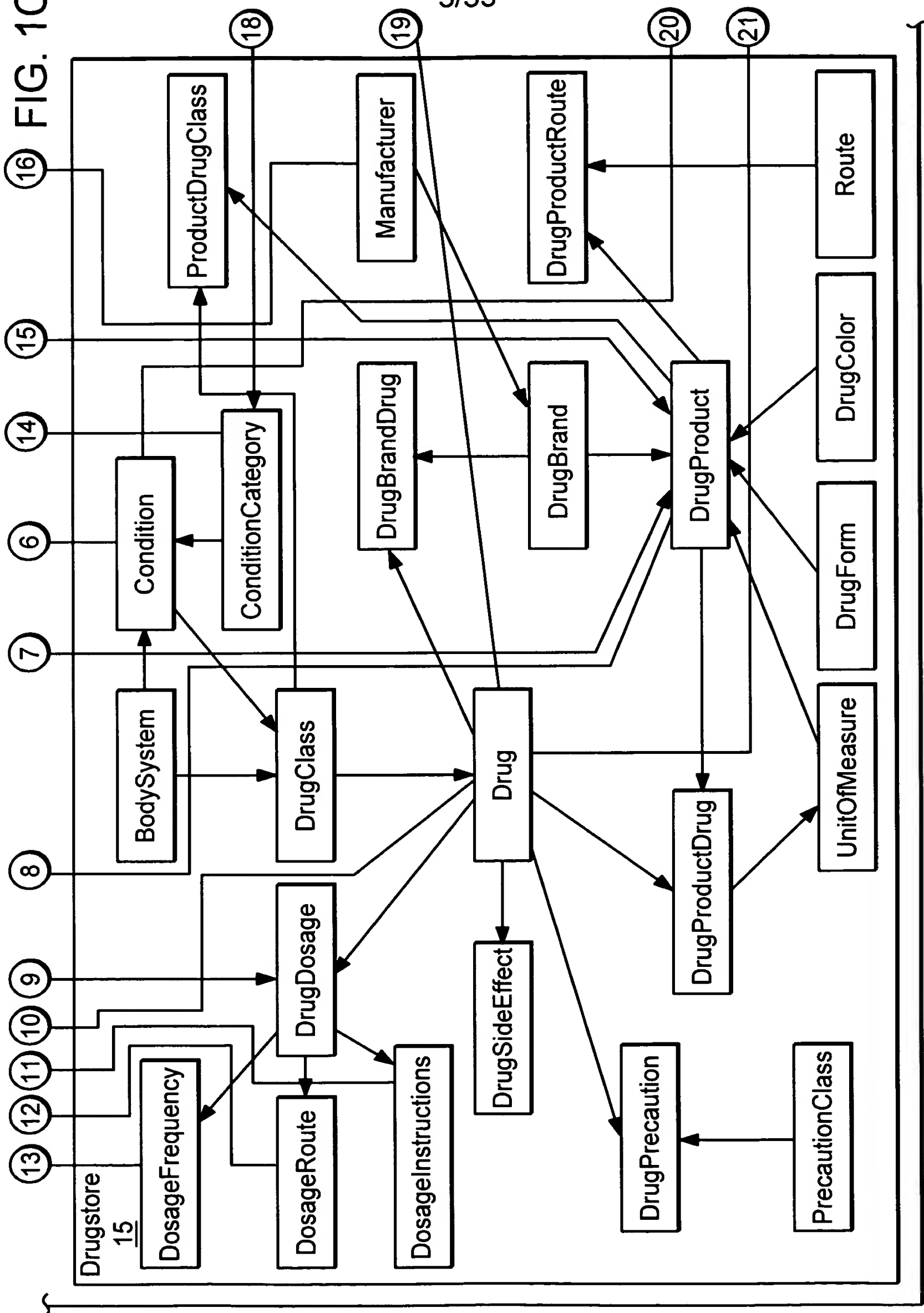






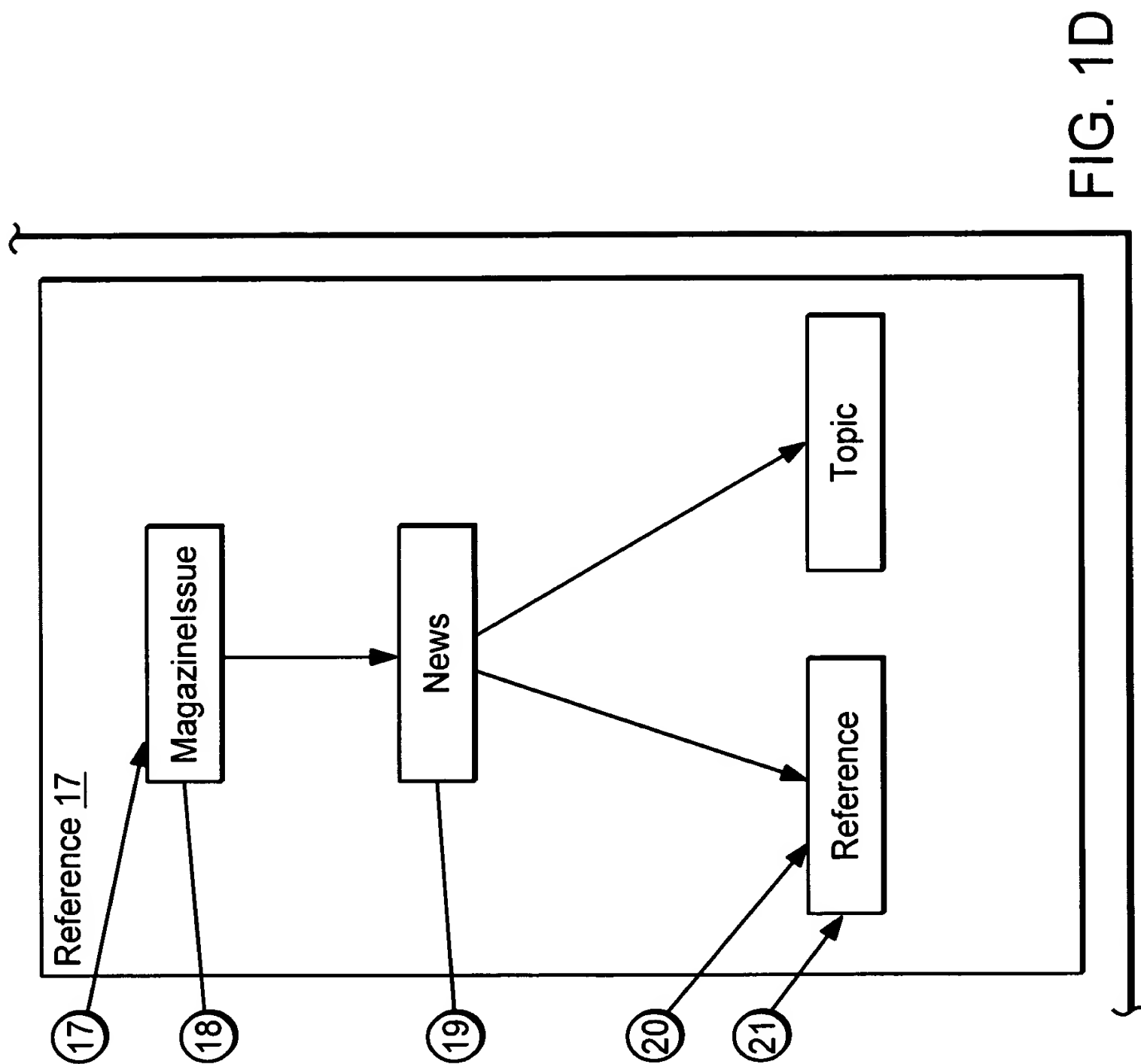
3/33

FIG. 1C





4/33





5/33

FIG. 2

211

215

217

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213

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210

251

255

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3

1

0

File Edit View Insert Project Multi User Construct Import Window Help

DrugStore 19

DrugStore Core

Reference

Store

BeautyProduct 235

Category 237

HealthProduct

PersonalCarePro

Product 239

ProductRelations

SalesOrder 21

SalesOrderItem

Shipping 243

Site

WellnessProduct

Customer 233

notused

ExtCategory

New

NewApplication

Entity Services Attributes Agents Process Agents Documents Messages Data Gen Data Entry Experience Gen Object Gen Test Cockpit

To be Deleted ☐ Class Attribute 251

Attribute List

SalesOrder ☐ User ☐ System ☐ Rollups ☐ Sort 255

IT	R	Attribute Name
1	R	Customer
2	M	OrderItems
3	B	1 OrderDate
4	B	1 SubTotal
5	B	2 ShippingCharge 231
6	B	1 Taxes
7	B	1 OrderTotal
8	B	1 PrescriptionOrder 227
9	S	ShippingAddress
10	E	ShippingMode
11	B	NameOnShipLabel
12	B	OrderStatus
13	B	1 OrderNumber
14	B	OrderStatusString
15	S	Payment
16	S	BillingAddress 229
17	S	Shipping
18	E	StateVar

241 225 253

New Delete Up Down

—SalesOrder

Ready

NUM

StateVar

Define Enum

StateVar

Local

Initiate

Registered

Verified

261

Options

Not in Archive

Not in Audit Trail

Not in Template

Properties

Required

Process State

Non-Persistent

Multi-Value

Read Only

Owns

Public

Nested

Keys

Identity

Unique Key

Indexed

Cluster

User Selecting

User Identifying

Primary Key

Presentation

Group

Entry Control Type

View Control Type

Sub Object

Control Style

Control Style

Button Icon

User Invisible

Button

In place

Application No. 09/651,226
Replacement Drawing



FIG. 5

NeuArchitect Workbench - [NewDrugStore3.]
File Edit View Insert Project Multi User Construct Import Window Help
P S E A As Uc Do M Re ? V ? Sm Qm Pm T

DrugStore
DrugStore
DrugStore
Core
Reference
Store
BeautyP
Category
HealthP
Persona
Product
Product
SalesOr
SalesOr
Shippin
Site
Wellnes
Customer
notused
ExtCatego
New
NewApplication

Business Rules

Business Rule List
1 Initial Value
2 ☒ Derivation
3 Validation
4 Security
5 Action

Rules for Taxes
Name Derivation
Type Derivation
OK Cancel
☒ Says Unparsed
Rule Edit
this SubTotal*0.06
Description
Message
New Delete

Test Cockpit
Business Rules (1)
51
Options
Not in Archive
Not in Audit Trail
Not in Template
User Invisible

--SalesOrder

View Control Type Edit
Sub Object Button In place
Control Style Button Icon

NUM 2:02 PM



9/33

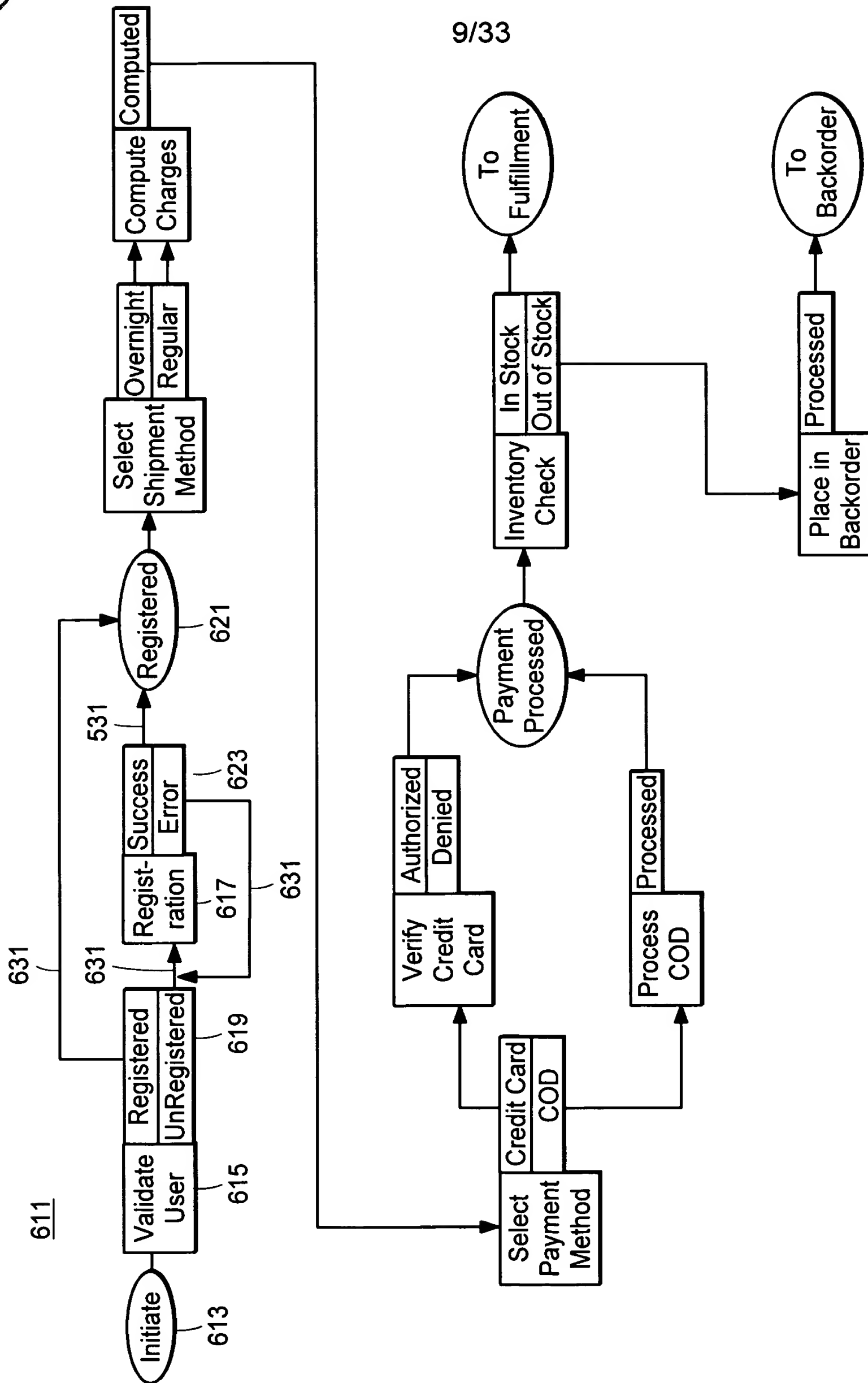


FIG. 6

Application No. 09/651,226
Replacement Drawing



11/33

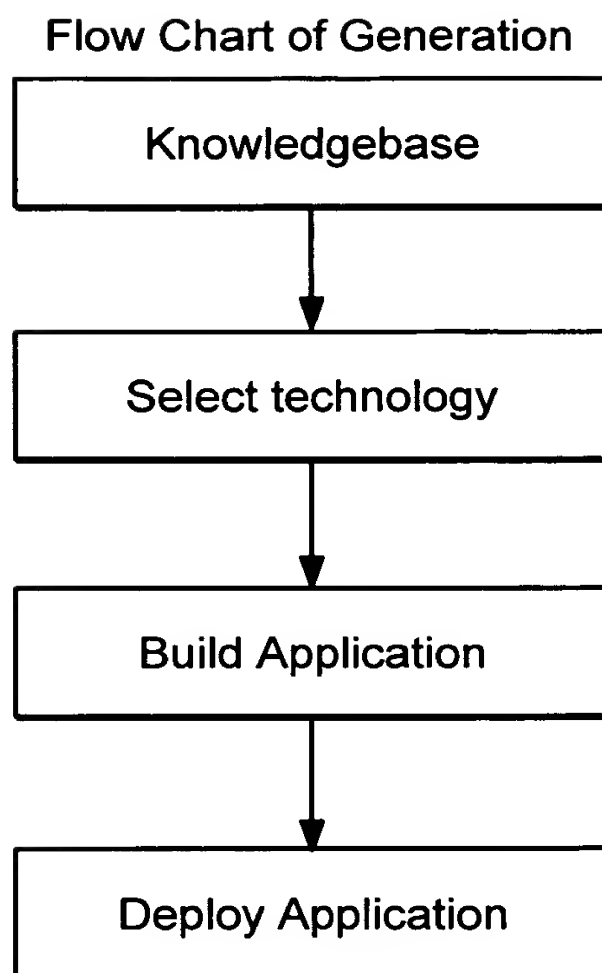
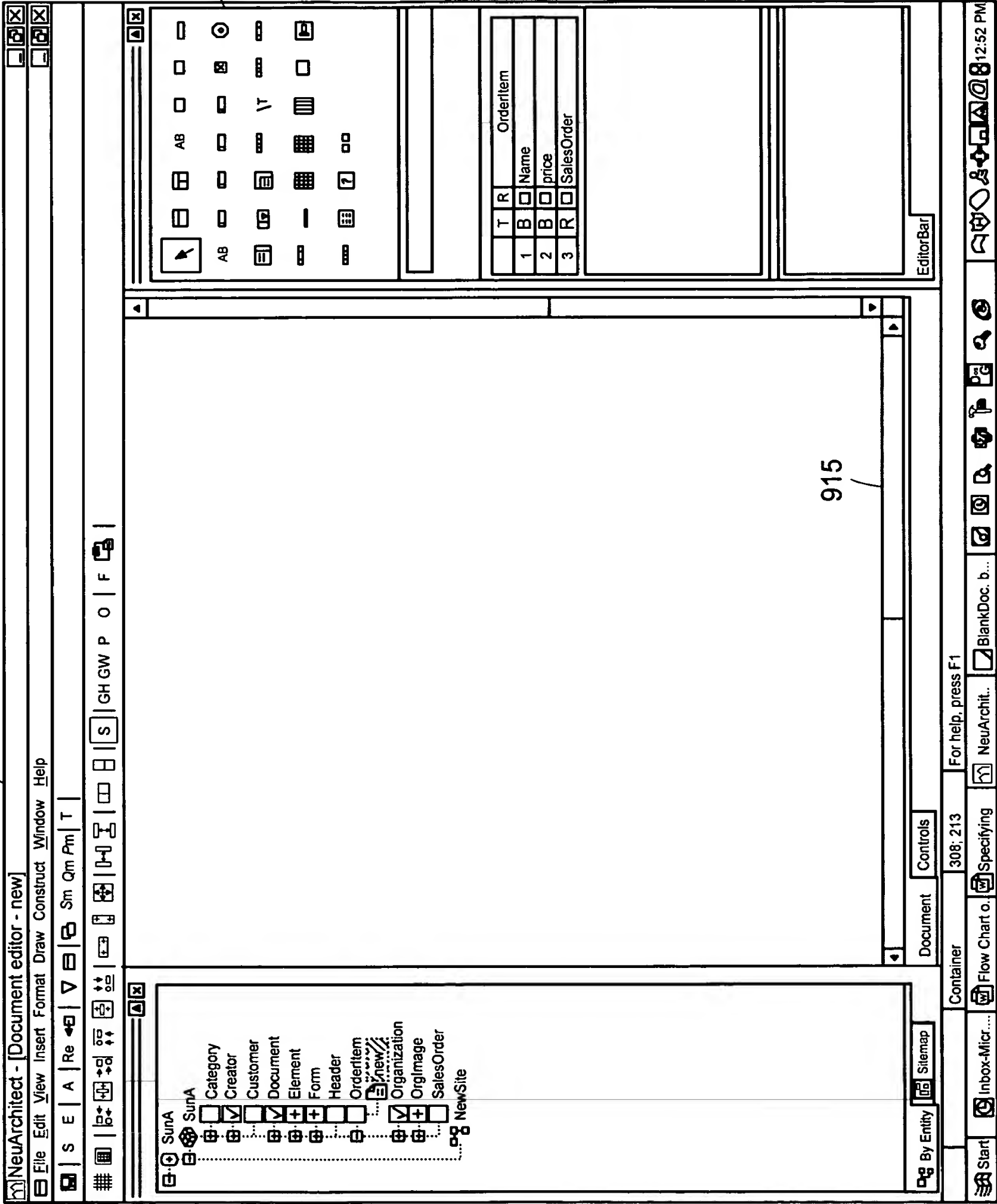


FIG. 8



FIG. 9

911





1011

Properties

Form

Object Space

Data Security

Parameters

Form Themes

Meta tags

Technology

☐ Retire

☒ Final

☐ Report

☐ Center

☐ View only

☒ Has data access

☐ Secure page

☐ Check for required fields

Name:

insertcus

Directory expression:

Entity:

Customer

Title:

Theme:

Current

Style:

BaseControls

Control style:

BaseControls

HTML style:

HTML template:

Data access:

Enter Only

Data binding:

Auto(Same as Parent)

View name:

Auto(Same as Parent)
dynamic
Static

Use transactions:

View

Description:

To do:

Script OnLoad:

Script Client:

Properties

OK

FIG. 10A



1011

1019

Properties

Form

Object Space

Data Security

Parameters

Form Themes

Meta tags

Technology

Attribute name in object space:

Entity name in object space:

Selection:

Sort:

Current entity available attributes

Attributes (4)

Addresses

Age

Name

Orders

METHODS (0)

MESSAGES (0)

Entity list for current document

OrderItem

Name

Price

Customer

Name

Age

All entities

Address

Customer

OrderItem

<<

>>

Refresh

Remove

Properties

OK

1121

>>

1119

<<

1117

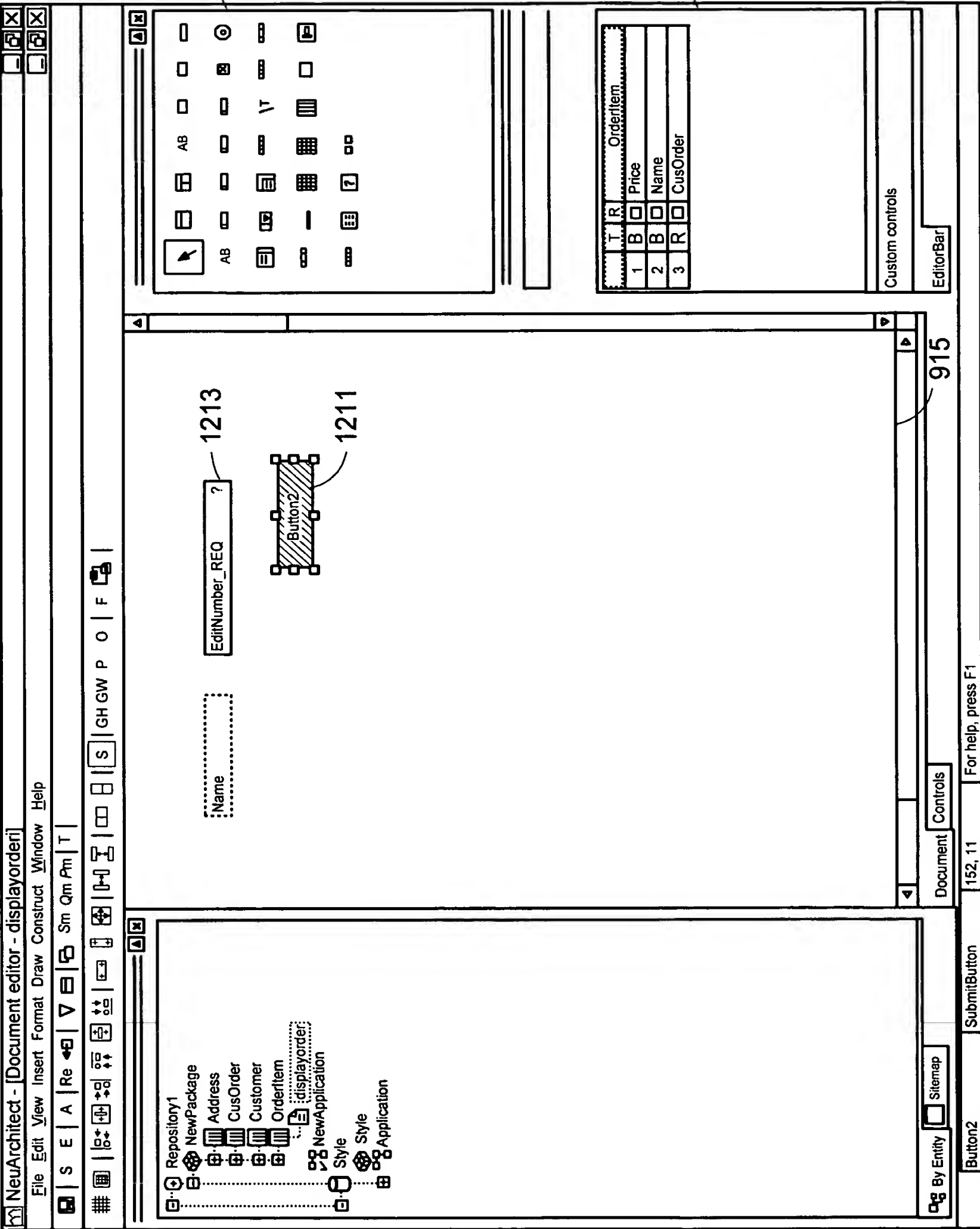
1113

1115

FIG. 11



911



5. Associate the data controls with the attributes.



1311

Control properties

Control

Display

View

Expressions

Events

Buddy

Control HTML

Style:

Mouse effect

☐ Mouse effect

3D font

☐ 3D font

Set 3D

Highlight color

Shadow

Shape

☐ Has shape

Shape

Image generation

☐ Generate image

Format:

Gif

Generate image

Image Processing

Fill and border

Fill:

Type:

Solid

Color:

Background

Border:

Type:

None

Shadow:

Type:

None

Back image:

Center

Tile

Stretch

Select

Text display

Custom

Theme

Font face:

Arial

Size:

10

Offset:

0

Weight:

NORMAL

Alignment:

Left

Color:

Custom Color

☐ Relative

Size:

8421

☐ Italic

☐ Underline

☐ Strikethrough

☐ Small caps

☐ Blink

☐ Superscript

☐ Subscript

☐ Oblique

Link display

Link color:

Custom Color

Visited link color:

Custom Color

Active link color:

Custom Color

Control properties

OK

Cancel

1313

FIG. 13



1411

Generate HTML

?

X

Output directory:

E:\applications\search20\

Generate only this document:

displayorderi

Type of data binding

☐ Optimazed Static and dynamic as marked

☒ Dynamic only: Ignore markings

☐ Static only: Ignore markings

Object details

☒ Stored procedures

☐ SQL statements

☒ Compile stored procedures

Browsers

	Gen	Browser	Directory
1	<input checked="" type="checkbox"/>	Microsoft IE 5	
2	<input type="checkbox"/>	Microsoft IE 4	
3	<input type="checkbox"/>	Netscape 4	
4	<input type="checkbox"/>	Netscape 3	NS3\

Style sheets

☐ Generate style sheets

Generate

Cancel

1417

1415

1413

FIG. 14



NeuArchitect Analytics
Run-Time Architecture

151

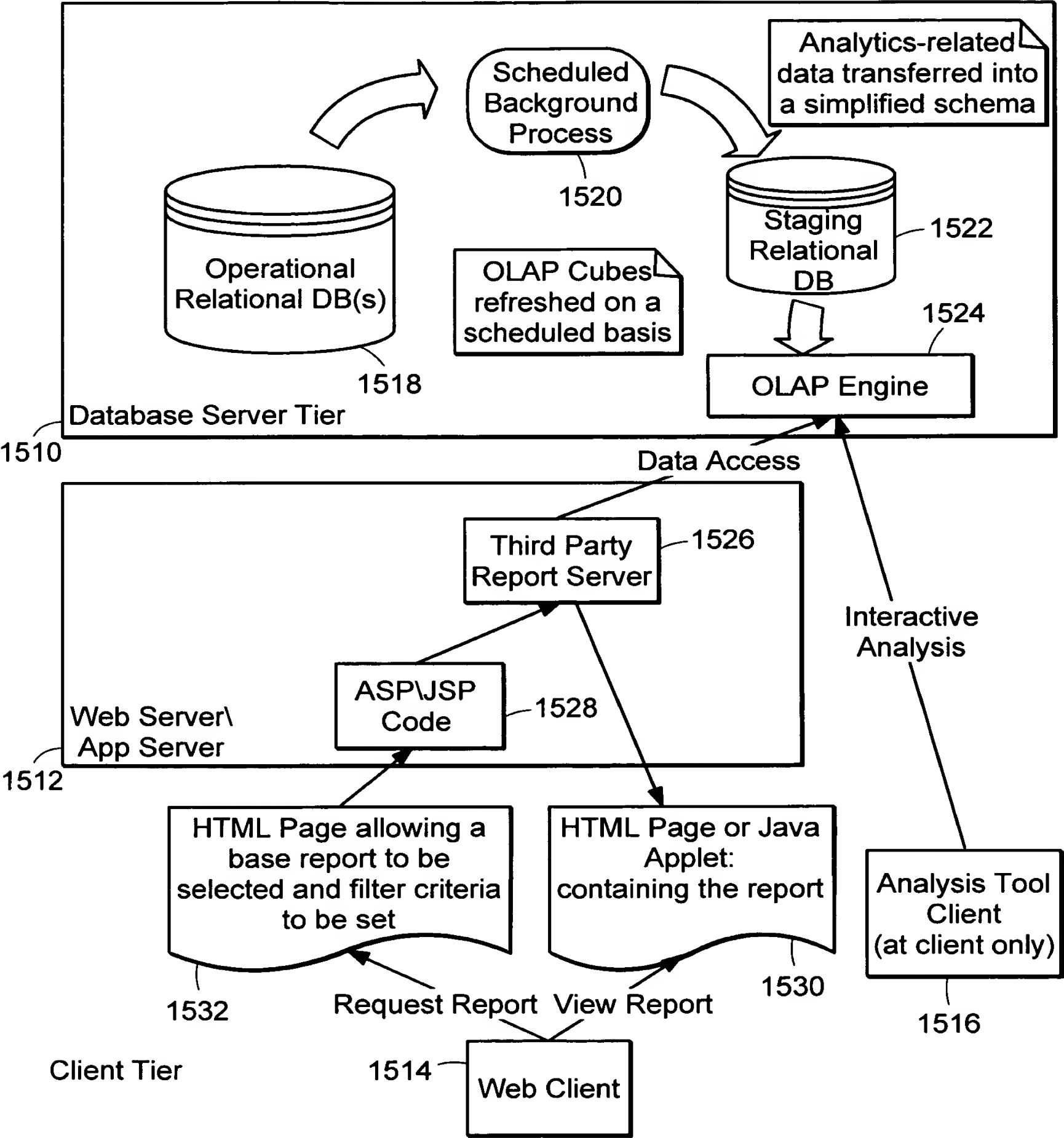
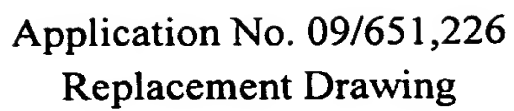


FIG. 15



Application No. 09/651,226
Replacement Drawing

NewArchitect - [MyTest.OMD]

File Edit View Insert Project Multi User Construct Import Window Help

P S E A As Uc Do M Re V | Processes Documents Messages Indices Data Gen Data Entry Analytics Features

MyTest

- NewPackage
- TheSubject
 - BuyerOrg
 - BuyerPerson
 - Manufacturer
 - Product
 - Seller
 - XAction
- NewApplication

☒ User ☐ System ☐ To be deleted ☐ Do not persist

Attribute list

	T	R	Attribute Name
1	R		Buyer
2	R		Seller
3	R		Product
4	B		XDate
5	E		XStatus
6	B		XAmount
7	B		SName
8	B		SRegion
9	E		ArchiveStatus
10			
11			

1841 1625

[New] [Delete] [Up] [Down]

—XAction

Attribute details

Name: XStatus

Caption: XStatus Security classification

Description:

To do:

Help:

Copy/Xtr Attributes

Data Type Properties Visualization Business Rules Data Descriptor Features Sample Data

Data Type: ☐ Basic ☒ Enum ☐ Class

XStatus 1843

Define Enum XStatus 1845

1	Initiated
2	Inprogress
3	complete
4	
5	
6	
7	
8	

NUM

For help press F1



24/33

FileEditViewInsertProjectMulti UserConstructImportWindowHelp

MyTest

NewPackage

TheSubject

BuyerOrg

BuyerPerson

Manufacturer

Product

Seller

XAction

NewApplication

ProcessDiagram

2069

2061

2067

2065

2063

To Do

NUM

EntitySettingsAttributesMethodProcessesDocumentsMessagesIndicesData GenData EntryAnalyticsFeatures

To be deleted

Process list

1	Transaction Processing
2	
3	

NewDeleteUpDown

Process details

Transaction Processing

2065

Process state

XStatus

Description

To Do

For help press F1

FIG. 20

217

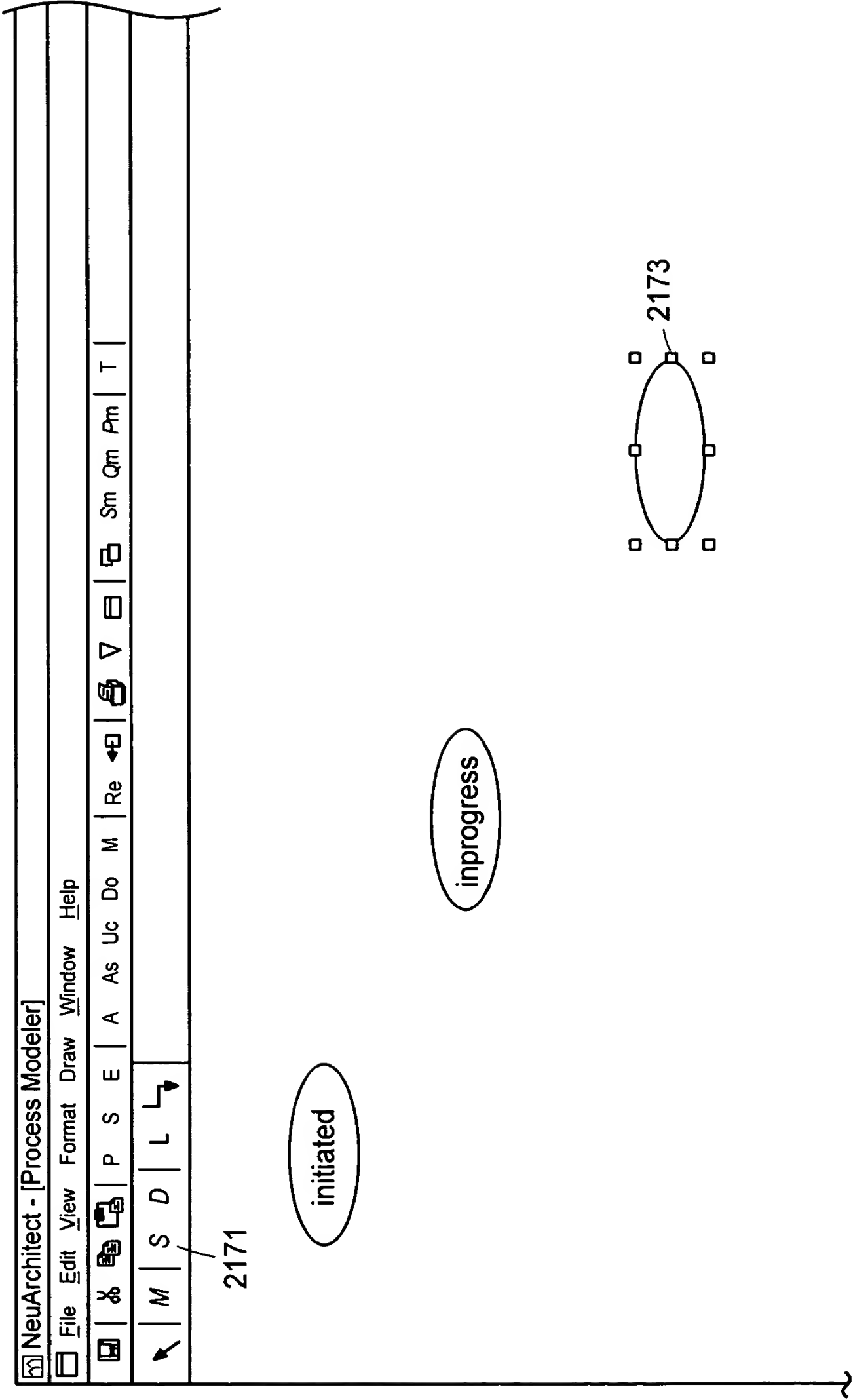


FIG. 21



26/33

Control Properties

State

Process State

State Name

Description

Next Step

Analytics

☐ Start State

☐ Capture Time

Since

Reporting Label

OK Cancel Apply

2213

2215

2219

2211

228

2217

FIG. 22



27/33

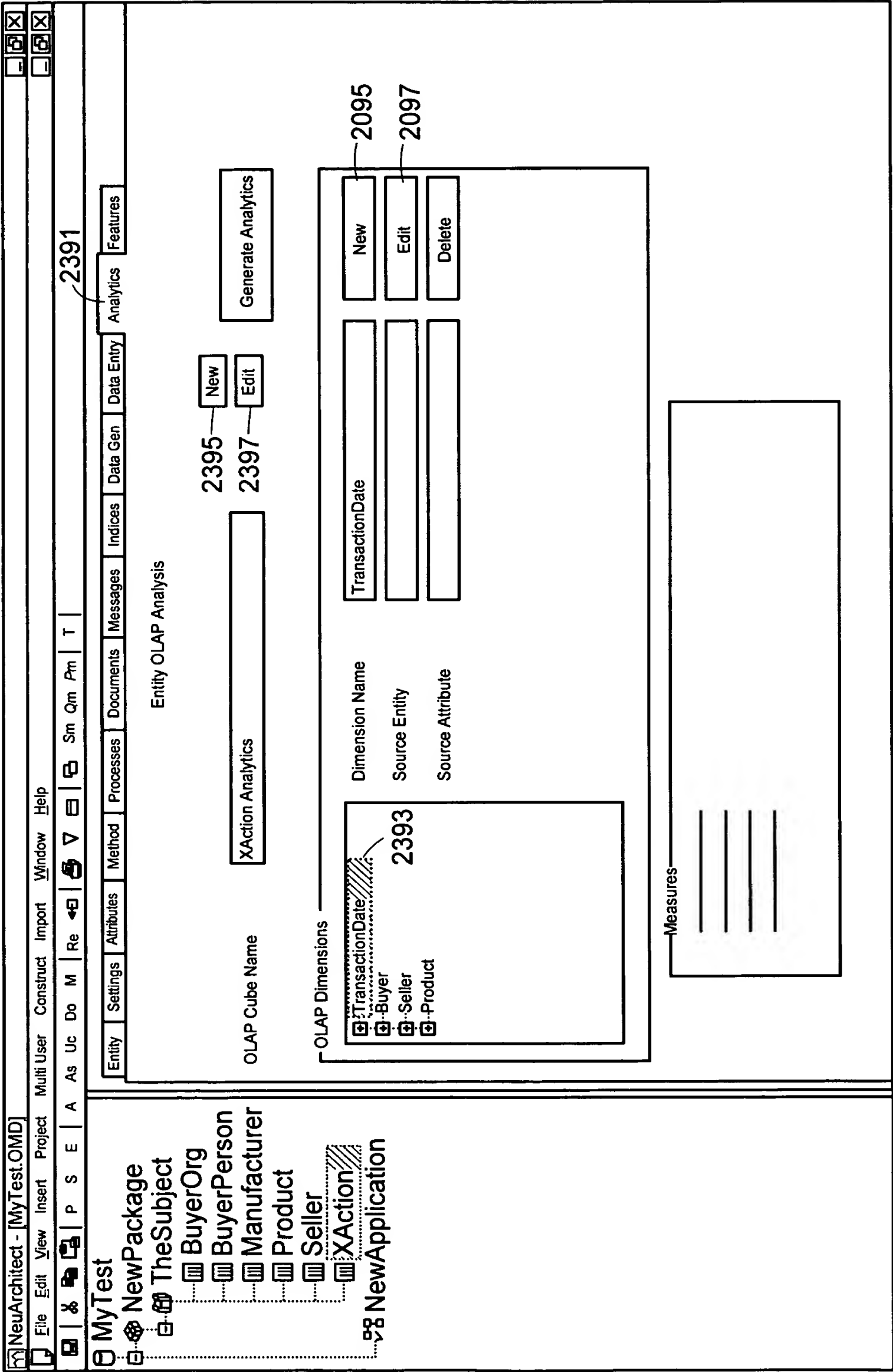


FIG. 23



24101

✕

Edit Dimension

Dimension Name

New Dimension

24103

OK

Cancel

☐ Time Dimension

Time Hierarchy

Start Month

XAction Attributes

	T	R	Attribute Name
1	R		Buyer
2	R		Seller
3	R		Product
4	B		XDate
5	E		XStatus
6	B		XAmount
7	B		SName
8	B		SRegion
9	E		ArchivesStatus
10			

>>

<<

Clear

Dimension Levels

Up

Down

Navigate Relationship

Back

Level Display Name

FIG. 24



24101

✕

Edit Dimension

Dimension Name

OrderDate

Dimension time

☒ Time dimension

Time hierarchy

Year,Quarter, Month, Day

Start month

January

OK

Cancel

2515

2511

2513

Order Attributes

	T	R	Attribute Name
1	B		Amount
2	B		OrderDate
3	E		OrderStatus
4			
5			

Navigate Relationship

Back

Dimension levels

Order. OrderDate

Up

Down

Level display name:

>>

<<

Clear

FIG. 25



2617

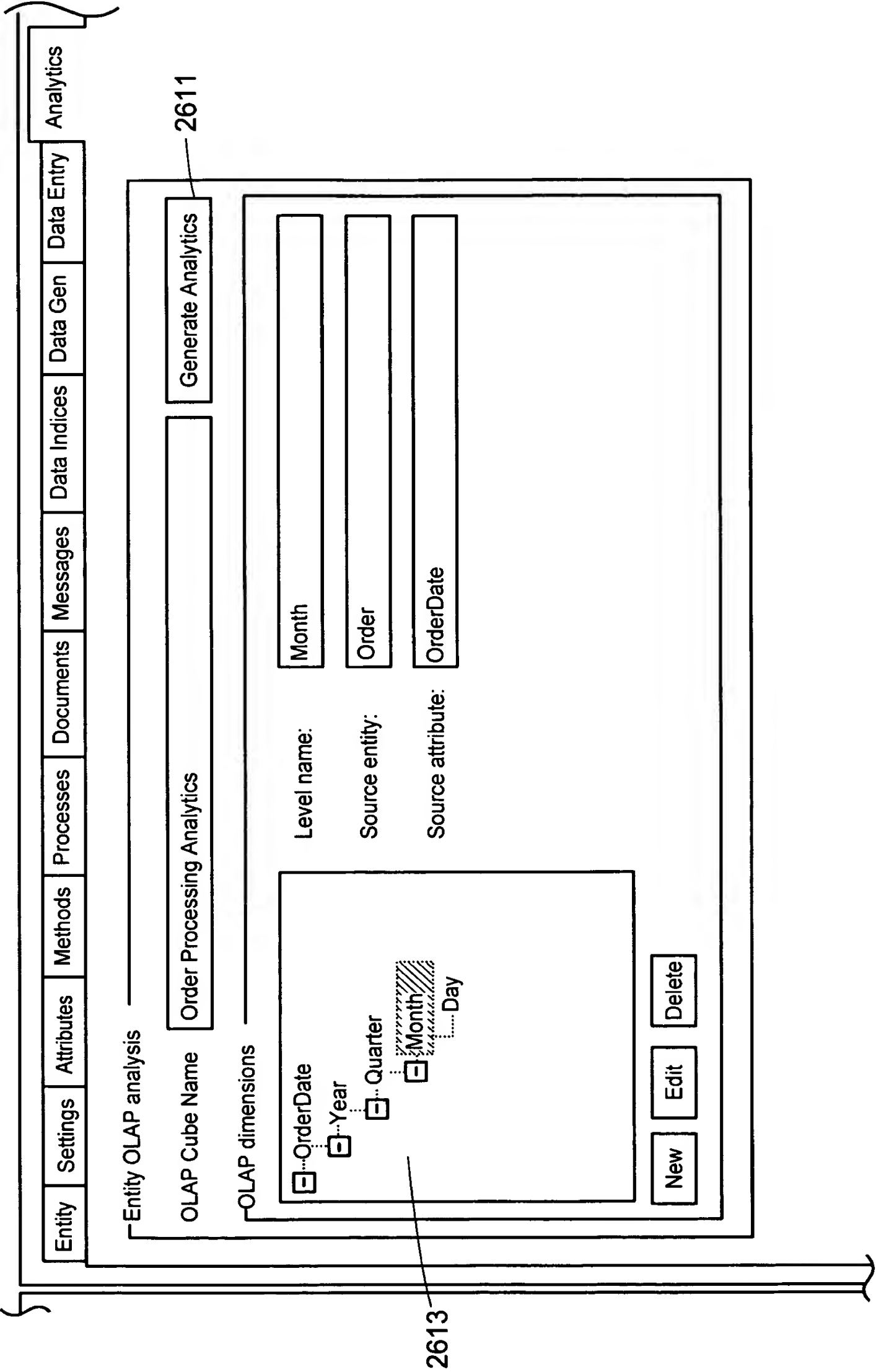


FIG. 26



✕

Edit Dimension

Dimension Name

Product

Dimension time

☐ Time dimension

Time hierarchy

Start month

▼

OK

Cancel

Order Attributes

	T	R	Attribute Name
1	B		Amount
2	B		OrderDate
3	E		OrderStatus
4	R		Customer
5	R		Product
6			
7			

Navigate Relationship

Back

2711

Dimension levels

>>

<<

Clear

Up

Down

Level display name:

2713

2715

FIG. 27



✕

Edit Dimension

Dimension Name

Product

Dimension time

☐ Time dimension

Time hierarchy

▼

Start month

▼

OK

Cancel

2815

Product Attributes

	T	R	Attribute Name
1	B		ProductName
2	M		Orders
3	B		ProductFamilyName
4			
5			

Navigate Relationship

Back

Dimension levels

Product. ProductFamilyName

Product. ProductName

Up

Down

Level display name:

ProductName

>>

<<

Clear

FIG. 28

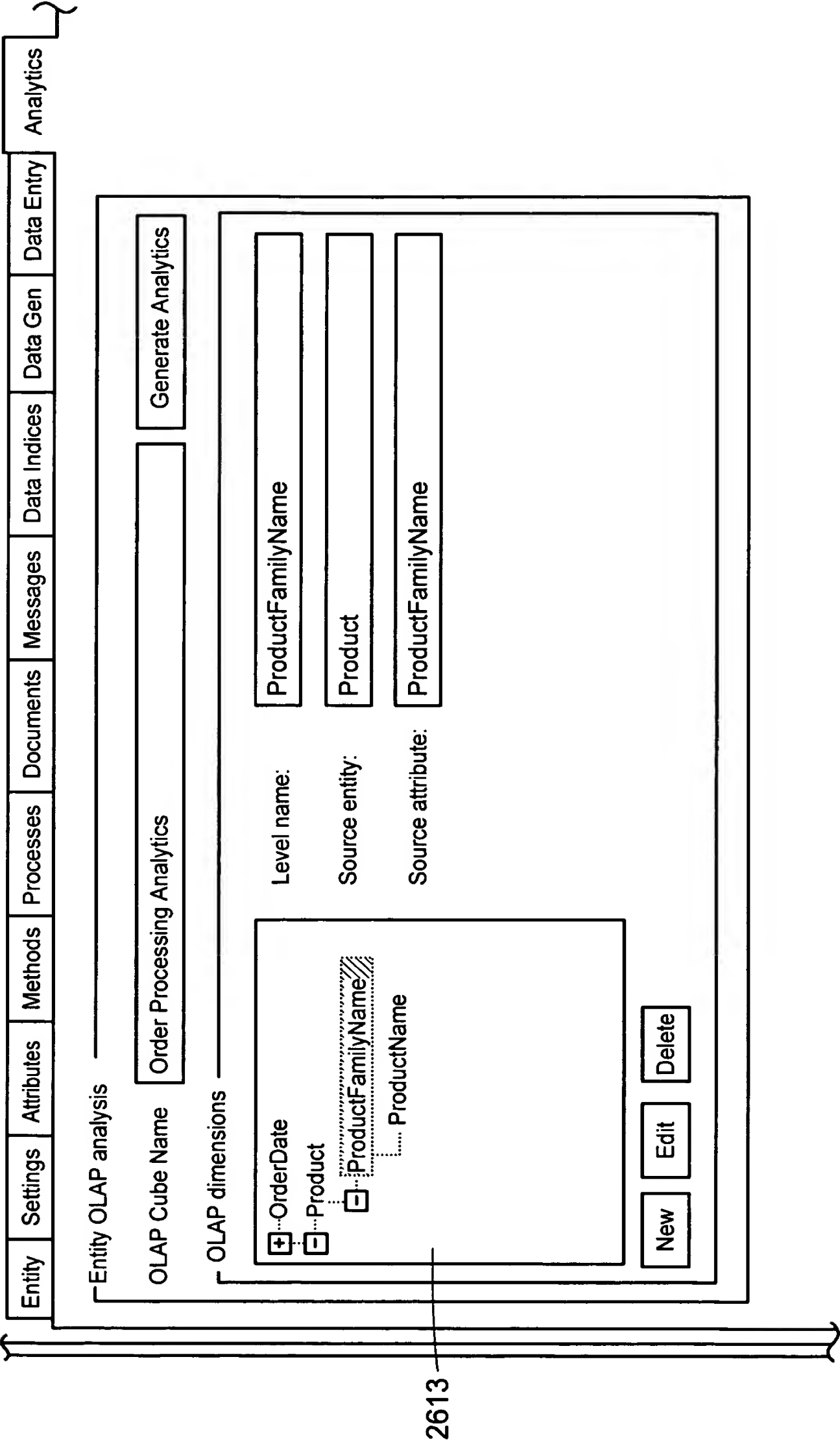
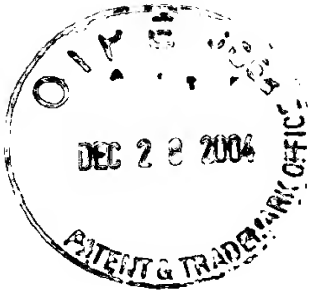


FIG. 29